

# Final Project Technology Review

CS 410: Text Information Systems, Fall 2022

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## Introduction

The topic that I selected for my technology review is Language Models: [Approach] OpenAI GPT, GPT-2, GPT-3 and BERT. I chose this topic in order to gain a better understanding of these tools and to compare and contrast their respective approaches in order to prep for my final project that will make use of GPT-3 to assist with better IMDB searches.

## Language Models

### OpenAI GPT

GPT is an acronym for Generative Pre-trained Transformer (GPT-3 is the 3<sup>rd</sup> generation of this model). GPT is a massive neural net trained (using internet data) to generate text that seems like a human could have created it.

[https://cdn.openai.com/better-language-models/language\\_models\\_are\\_unsupervised\\_multitask\\_learners.pdf](https://cdn.openai.com/better-language-models/language_models_are_unsupervised_multitask_learners.pdf)

<https://www.techtarget.com/searchenterpriseai/definition/GPT-3>

### BERT

[https://arxiv.org/abs/1810.04805?source=post\\_page](https://arxiv.org/abs/1810.04805?source=post_page)

## Conclusion